

# *NWS Quarterly Performance*

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## WSR-88D Outage Summary

(EMRS Point of Contact: Don Rinker 301-713-1892x201)

### NATIONAL COMMENTS

The National Service Availability has been stable over the 18 month period and significantly above the standard.

### REGIONAL COMMENTS

Eastern Region - The Eastern Region Service Availability shows no major deviations from the National Service Availability.

Southern Region - The Southern Region Service Availability shows no major deviations from the National Service Availability.

Central Region - The Central Region Service Availability shows no major deviations from the National Service Availability.

Western Region - A significant dip in the Service Availability for Western Region occurs in September 2001.

Sept. 2001 - 123.0 hour outage at Billings, MT (BYZ). 93% of outage time was logistics delay. An e-mail was sent on 10/4/01; response indicated delay time due to air freight shipping problems resulting from September 11<sup>th</sup> terrorist attacks.

283.5 hour outage at Monterey, CA (MTR). 57% of outage time was logistics delay. Klystron failures. EMRS Document H180246; confirmed with USOS Document MTR109151338.

120.0 hour outage at Portland, OR (PQR). 100% of outage time was logistics delay. An e-mail was sent on

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10/4/01; response indicated delay time due to air freight shipping problems resulting from September 11<sup>th</sup> terrorist attacks.

34 hour outage at Seattle, WA (SEW). 0% of outage time was logistics delay. E-mails sent 10/04/01 and 12/11/01; no response received.

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### **SITE SPECIFIC COMMENTS**

#### **Eastern Region**

##### **Mount Holly, NJ (PHI)**

Aug. 2001 - 23.0 hour outage. 65% of outage time was logistics delay. Backswing diode stack replacement.

Note: Availability remained above standard.

##### **Blacksburg, VA (LWX)**

Oct. 2001 - 13.3 hour outage. 62% of outage time was logistics delay. Blower fan belt replacement.

3.0 hour outage. 100% of outage time was logistics delay. Blower fan belt replacement.

Note: Availability remained above standard.

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### **Southern Region**

#### **Memphis, TN (MEG)**

Sep. 2001 - Apr. 2002

Note: 12 EMRS reports, no down time, 10 CLS parts ordered (4 emergency parts ordered, 6 routine parts ordered). EMRS reporting not consistent with CLS emergency orders.

#### **Shreveport, LA (SHV)**

May 2001 - 20.0 hour outage. 70% of outage time was logistics delay. Lightning strike. Confirmed with USOS document SHV10521424.

Note: Availability remained above standard.

Sep. 2001 - Apr. 2002

Note: 12 EMRS reports, no down time, 26 CLS parts ordered (18 emergency parts ordered, 8 routine parts ordered). EMRS reporting not consistent with CLS emergency orders.

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### **Central Region**

#### **North Platte, NE (LBF)**

Jul. 2001 - 25.0 hour outage. 0% of outage time was logistics delay. Replacement of three separate parts. E-mail sent 08/13/01; no response received.

Note: Availability remained above standard

Dec. 2001 - 6.0 hour outage. 0% of outage time was logistics delay. Azimuth drive motor problem.

8.0 hour outage. 0% of outage time was logistics delay. Azimuth drive motor problem.

Note: Availability remained above standard

#### **Topeka, KS (TOP)**

Jan. 2002 - 25.2 hour outage. 89% of outage time was logistics delay. Focus coil power supply replacement. Confirmed through USOS document number TOP201071846.

Note: Availability remained above standard

Feb. 2002 - 13.1 hour outage. 30% of outage time was logistics delay. Wave guide switch replacement.

11.6 hour outage. 0% of outage time was logistics delay. Transmitter alignment.

4.0 hour outage. 0% of outage time was logistics delay. Elevation and azimuth alignment.

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Mar. 2002 - 4.0 hour outage. 0% of outage time was logistics delay.  
Digital control unit replacement.

19.0 hour outage. 21% of outage time was logistics delay.  
Dynamic Pedestal problems.

Note: Availability remained above standard.

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### **Western Region**

#### **Pendleton, OR (PDT)**

May 2001 - Sep. 2001

Note: 12 EMRS reports, no down time, 7 CLS parts ordered (5 emergency parts ordered, 2 routine parts ordered). EMRS reporting not consistent with CLS emergency orders.

Apr. 2002 - 8.0 hour outage. 0% of outage time was logistics delay. Various alignments.

5.0 hour outage. 0% of outage time was logistics delay. Klystron Path alignment.

Note: Availability remained above standard.

#### **Las Vegas, NV (VEF)**

Dec. 2001 - 19.0 hour outage. 0% of outage time was logistics delay. Waveguide pressurization loss.

Note: Availability remained above standard.

Jan. 2002 - 19.0 hour outage. 0% of outage time was logistics delay. Waveguide leak.

Note: Availability remained above standard.

Mar. 2002 - 19.0 hour outage. 0% of outage time was logistics delay. Intermittent radar failures.

Note: Availability remained above standard.

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Apr. 2002 - 16.0 hour outage. 0% of outage time was logistics delay.  
Repair of Pedestal Slip Ring.

Note: Availability remained above standard.



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### CRS Processor Outage Summary

(EMRS Point of Contact: John Merhi 301-713-1892x200)

#### NATIONAL COMMENTS

CRS Processor (B440) service availability remains high, averaging above 0.999.

#### REGIONAL COMMENTS

Eastern Region - Deviations from the National Service Availability occurred during May and June 2001.

May 2001 - 66.0 hour outage at Cleveland, OH (CLE) - 71% of outage time was logistic delay. Email sent 5/29/01, no response received.

2.3 hour outage at Cleveland, OH (CLE).

4.5 hour outage at Cleveland, OH (CLE).

3.0 hour outage at Cleveland, OH (CLE).

2.0 hour outage at Greer, SC (GSP).

3.4 hour outage at Greer, SC (GSP).

June 2001 - 48.0 hour outage at Burlington, VT (BTV) -100% of outage time was logistic delay. Email sent 7/09/01 with response confirming outage time.

4.4 hour outage at Cleveland, OH (CLE).

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### CRS Processor Outage Summary Continued

(EMRS Point of Contact: John Merhi 301-713-1892x200)

Southern Region - Service availability is consistent with the National trend. A decrease in Service Availability occurred during July 2001 and April 2002.

July 2001 - 113.1 hour outage at Lake Charles, LA (LCH) - no logistic delay. Email sent 7/24/01 with response confirming outage time.

Apr. 2002 - 16.8 hour outage at Midland, TX (MAF) - 94% of outage time was logistic delay.

Central Region - Service availability is consistent with the National trend.

Western Region - Deviations from the National Service Availability occurred during Feb 2002.

Feb. 2002 - 49.0 hour outage at Seattle, WA (SEW) - 98% of time was logistic delay. Email sent 3/07/01 with response confirming outage time.

6.0 hour outage at San Diego, CA (SGX).

2.0 hour outage at Sacramento, CA (STO).

Alaska Region - Service availability is slightly greater than the National trend.

Pacific Region - Service availability is consistent with the National trend.

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### Automatic Radiotheodolite (Reconfigured GMD - ART1)

#### Outage Summary

(EMRS Point of Contact: John Merhi 301-713-1892x200)

### NATIONAL COMMENTS

Service availability variation ranged between 0.98 and 1.00.

### REGIONAL COMMENTS

Eastern Region - Deviations from the National Service Availability occurred during May 2001, July 2001, August 2001, January 2002 and April 2002.

May 2001 - 12.0 hour outage at Buffalo, NY (BUF) - 72% of outage time was logistic delay.

4.0 hour outage at Albany, NY (ALY).

July 2001 - 12.0 hour outage at Newport, NC (MHX)

Aug 2001 - 15.0 hour outage at Wilmington, OH (ILN)

Jan 2002 - Three outages totaling 59.5 hours at Buffalo, NY (BUF).

3.0 hour outage at Albany, NY (ALY)

Apr 2002 - 24.0 hour outage at Newport, NC (MHX)

Southern Region - Deviations from the National Service Availability occurred during June 2001, October 2001, and March 2002.

June 2001 - Three outages totaling 27.0 hours at Ruskin, FL (TBW) - 44% of outage time was logistic delay. Confirmed through USOS document number TBW110615725.

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### Automatic Radiotheodolite (Reconfigured GMD - ART1)

#### Outage Summary - Continued

(EMRS Point of Contact: John Merhi 301-713-1892x200)

#### Southern Region (continued)

June 2001 - Two outages totaling 6.0 hours at Tallahassee, FL (TLH)

Oct. 2001 - 36.0 hour outage at Norman, OK (OUN) - 32% of outage time was logistic delay. Confirmed through USOS document number OUN110101429.

10.0 hour outage at Ruskin, FL (TBW). Confirmed through USOS document number TBW110221466.

Mar. 2002 - 18.0 hour outage at Key West, FL (EYW). Confirmed through USOS document number EYW2031221716.

18.4 hour outage at Slidell, LA (LIX).

Central Region - There are no ART-1 systems in Central Region.

Western Region - Deviations from the National Service Availability occurred during Nov 2001 and March 2002.

Nov. 2001 - 6.0 hour outage at Tucson, AZ (TWC).

Mar 2002 - 12.0 hour outage at Tucson, AZ (TWC) - 55% of outage time was logistic delay.

Alaska Region - There are no ART-1 systems in Alaska Region.

Pacific Region - Service availability is consistent with the National trend. A decrease in Service Availability occurred during Aug and Sep 2001

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### Automatic Radiotheodolite (Reconfigured GMD - ART1)

#### Outage Summary - Continued

(EMRS Point of Contact: John Merhi 301-713-1892x200)

#### Pacific Region (continued)

Aug. 2001 - 48.0 hour outage at Ponape, Pohnpei (PTPN). Less than 1% of time was logistic delay. Email sent 8/20/01, no response received.

2.0 hour outage at Hilo, HI (ITO).

Sept. 2001 - 42.0 hour outage at Pago Pago, AS (NTSU) - 93% of outage time logistic delay. Email sent 2/26/02.

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### Automatic Radiotheodolite (Reconfigured WBRT - ART2) Outage Summary

(EMRS Point of Contact: John Merhi 301-713-1892x200)

#### NATIONAL COMMENTS

Service availability variation ranged between 0.98 and 1.00.

#### REGIONAL COMMENTS

Eastern Region - Deviations from the National Service Availability occurred during May 2001, August 2001, November 2001, December 2001, and February 2002.

May 2001 -	Three outages totaling 18.0 hours at Blacksburg, VA (RNK). 30% of outage time was logistic delay.
	Two outages totaling 10.4 hours at Sterling, VA (LWX).
Aug. 2001 -	24.0 hour outage at Chatham, MA (CHH). 86% of outage time was logistic delay. Email sent 9/10/01, with response confirming outage time.
	4.0 hour outage at Gray, ME (GYX)
	16.0 hour outage at Blacksburg, VA (RNK). 92% of outage time was logistic delay. Confirmed through USOS document number RNK108301249.
Nov. 2001 -	18.0 hour outage at Chatham, MA (CHH). 68% of outage time was logistic delay. Site contacted 11/05/01 and confirmed outage time.
Dec 2001 -	23.5 hour outage at Gray, ME (GYX). 70% of outage time was logistic delay.

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### Automatic Radiotheodolite (Reconfigured WBRT - ART2)

#### Outage Summary Continued

(EMRS Point of Contact: John Merhi 301-713-1892x200)

#### Eastern Region continued

Feb 2002 - 42.0 hour outage at Blacksburg, VA (RNK). 88% of outage time was logistic delay. Confirmed through USOS document number RNK202162057.

6.0 hour outage at Sterling, VA (LWX).

Southern Region - Deviations from the National Service Availability occurred during Jun 2001, Sep 2001, and Dec 2001.

June 2001 - Two outages totaling 14.0 hours at Jacksonville, FL (JAX). 66% of outage time was logistic delay. Confirmed through USOS document number JAX10622766.

6.0 hour outage at Santa Teresa, NM (EPZ). Confirmed through USOS document number EPZ10626796.

12.0 hour outage at Peachtree City, GA (FFC). 87% of outage time was logistic delay. Confirmed through USOS document number FFC10613695.

12.0 hour outage at San Juan, PR (SJU). Confirmed through USOS document number SJU10627812.

Sept. 2001 - Two outages totaling 35.8 hours at N. Little Rock, AR (LZK). 85% of outage time was logistic delay. Confirmed through USOS document numbers LZK109131327 and LZK109191358.

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### Automatic Radiotheodolite (Reconfigured WBRT - ART2)

#### Outage Summary Continued

(EMRS Point of Contact: John Merhi 301-713-1892x200)

#### Southern Region Continued

Sept. 2001 (cont)- Two outages totaling 4.8 hours at Santa Teresa, NM (EPZ)

2.0 hour outage at Jacksonville, FL (JAX).

Dec. 2001 - 6.0 hour outage at Birmingham, AL (BMX).

0.3 hour outage at San Juan, PR (SJU).

Three outages totaling 20.7 hours at N. Little Rock, AR (LZK). 48% of outage time was logistic delay.

5.0 hour outage at Old Hickory, TN (OHX).

Central Region - Deviations from the National Service Availability occurred during Jul 2001, Aug 2001, and Nov 2001.

July 2001 - 7.8 hour outage at Dodge City, KS (DDC).

12.0 hour outage at Davenport, IA (DVN). 77% of outage time was logistic delay. Confirmed through USOS document number DVN10717961.

Two outages totaling 18.0 hours at Lincoln, IL (ILX). 96% of outage time was logistic delay. Confirmed through USOS document numbers ILX10705856 and ILX108011061.



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### Automatic Radiotheodolite (Reconfigured WBRT - ART2)

#### Outage Summary Continued

(EMRS Point of Contact: John Merhi 301-713-1892x200)

#### Central Region Continued

- July 2001 - 31.5 hour outage at Topeka, KS (TOP). 24% of outage time was logistic delay. Email sent 8/06/01, no response received.
- 12.0 hour outage at Grand Junction, CO (GJT). 88% of outage time was logistic delay. Confirmed through USOS document number GJT10719989.
- 0.7 hour outage at Riverton, WY (RIW).
- Aug. 2001 - Two outages totaling 26.6 hours at Denver, CO (DNR). 70% of outage time was logistic delay. Confirmed through USOS document number BOU108131138.
- Three outages totaling 34.0 hours at Lincoln, IL (ILX). 75% of outage time was logistic delay. Confirmed through USOS document numbers ILX108011061 and ILX108101131.
- Two outages totaling 9.0 hours at Rapid City, SD (UNR).
- 1.0 hour outage at Chanhassen, MN (MPX).
- Nov. 2001 - Two outages totaling 9.0 hours at Aberdeen, SD (ABR). 58% of outage time was logistic delay. Confirmed through USOS document number ABR111061558.
- Three outages totaling 17.0 hours at White Lake, MI (DTX).

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### Automatic Radiotheodolite (Reconfigured WBRT - ART2)

#### Outage Summary Continued

(EMRS Point of Contact: John Merhi 301-713-1892x200)

#### Central Region Continued

Nov. 2001 - 30.0 hour outage at Davenport, IA (DVN). 92 % of outage time was logistic delay. Confirmed through USOS document number DVN111271651.

0.8 hour outage at Lincoln, IL (ILX).

1.0 hour outage at Chanhassen, MN (MPX).

Western Region - Deviations from the National Service Availability occurred during August 2001, March 2002, and April 2002.

Aug. 2001 - 18.0 hour outage at Medford, OR (MFR). 84% of outage time was logistic delay. Confirmed through USOS document number MFR108231208.

18.0 hour outage at Salem, OR (SLE). 27% of outage time was logistic delay. Confirmed through USOS document number PQR108081100.

0.5 hour outage at Great Falls, MT (TFX).

0.3 hour outage at Glasgow, MT (GGW).

Mar. 2002 - 24.0 hour outage at Quillayute, WA (UIL).

Four outages totaling 6.0 hours at Great Falls, MT (TFX).

Apr. 2002 - 11.2 hour outage at Bellemont, AZ (FGZ). 19% of outage time was logistic delay.

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### Automatic Radiotheodolite (Reconfigured WBRT - ART2)

#### Outage Summary Continued

(EMRS Point of Contact: John Merhi 301-713-1892x200)

#### Western Region Continued

Apr. 2002 (cont) - 2.67 hour outage at Glasgow, MT (GGW)

19.0 hour outage at Quillayute, WA (UIL).

0.75 hour outage at Oakland, CA (OAK).

Alaska Region - Deviations from National Service availability occurred during February 2002.

Feb. 2002 - Two outages totaling 48.0 hours at Barrow, AK (BRW).  
25% of outage time was logistic delay.

Pacific Region - There are no ART-2 systems in Pacific Region.

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### Upper Air Microcomputer (M003) Service Availability Outage Summary

(EMRS Point of Contact: John Merhi 301-713-1892x200)

#### NATIONAL COMMENTS

Upper Air microcomputer (M003) service availability remains high, averaging above 0.994.

#### REGIONAL COMMENTS

Eastern Region - Deviations from the National Service Availability occurred during June 2001, September 2001, and October 2001.

- Jun. 2001 - 12.0 hour outage at Blacksburg, VA (RNK). 60% of outage time was logistic delay.
- Sep. 2001 - Two outages totaling 9.7 hours at Blacksburg, VA (RNK). 40% of outage time was logistic delay.
- Oct. 2001 - 12.0 hour outage at Charleston, SC (CHS).

Southern Region - Service availability is at or above the National trend.

Central Region - Minor deviations from the National Service Availability occurred during March 2002.

- Mar 2002 - 6.0 hour outage at Topeka, KS (TOP)
- 3.0 hour outage at Chanhassen, MN (MPX)
- 0.25 hour outage at Gaylord, MI (APX).

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### Upper Air Microcomputer (M003) Service Availability Outage Summary Continued

(EMRS Point of Contact: John Merhi 301-713-1892x200)

Western Region - Deviations from the National Service Availability occurred during Oct 2001.

Oct 2001 - 24.0 hour outage at Salt Lake City, UT (SLC).

Alaska Region - Service availability is at or above the National trend.

Pacific Region - Deviations from the National Service Availability occurred during May 2001, August 2001, and October 2001

May 2001 - Three outages totaling 113.0 hours at Luweech, Yap (PTYA). 95% of outage time was logistic delay.

Aug 2001 - Two outages totaling 37.0 hours at Lihue, HI (ITO). Email sent 9/07/01, no response received.

Oct. 2001- Two outages totaling 78.0 hours at Koror, Koror. 23% of outage time was logistic delay.